

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Court et al.

Application No. To be assigned

Filed: Herewith

Confirmation No. To be assigned

For: ENHANCED HOMOLOGOUS
RECOMBINATION MEDICATED BY
LAMBDA RECOMBINATION PROTEINS

Examiner: To be assigned

Art Unit: To be assigned

Attorney Reference No. 4239-66898

CERTIFICATE OF EXPRESS MAILING

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Agent
for Applicant(s)

Date Mailed October 23, 2003

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INFORMATION DISCLOSURE STATEMENT
FOR CONTINUING APPLICATIONS

Listed on the accompanying form PTO-1449 are several English-language documents. Applicants respectfully request that such documents be listed as references cited on the issued patent.

The present application relies upon U.S. Patent Application No. 10/366,044, which was filed February 12, 2003, for an earlier filing date under 35 U.S.C. § 120. Furthermore, documents listed on the accompanying form PTO-1449 were disclosed to or cited by the Patent Office in the earlier U.S. application.

Copies of the documents listed on the accompanying form PTO-1449 that were cited by applicants in the earlier application need not be sent to the Patent Office pursuant to 37 C.F.R. § 1.98. However, applicants will furnish the Patent Office with such copies upon request.

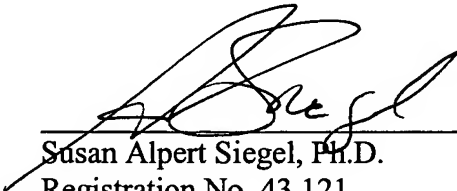
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The filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in the statement is, or is considered to be, prior art or otherwise material to patentability as defined in Rule 56.

Respectfully submitted,

KLARQUIST SPARKMAN, LLP

By


Susan Alpert Siegel, Ph.D.
Registration No. 43,121

One World Trade Center, Suite 1600
121 S.W. Salmon Street
Portland, Oregon 97204
Telephone: (503) 226-7391
Facsimile: (503) 228-9446

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U.S. PATENT DOCUMENTS

Examiner's Initials*	Cite No. (optional)	Number	Date	Name
		5,888,732	03/30/1999	Hartley et al.
		6,355,412	03/12/2002	Stewart et al.
		6,365,408	04/02/2002	Stemmer
		6,509,156	01/21/2003	Stewart et al.

FOREIGN PATENT DOCUMENTS

Examiner's Initials*	Cite No. (optional)	Number	Date	Country
		WO 99/29837	06/17/1999	WIPO
		WO 01/04288	01/18/2001	WIPO
		WO 02/062988	08/15/2002	WIPO
		WO 02/14495 A2	02/21/2002	WIPO

OTHER DOCUMENTS

Examiner's Initials*	Cite No. (optional)	
		Bilello et al., <i>Gene Therapy</i> 10:733-749, 2003
		Capecchi, M., "Altering the Genome by Homologous Recombination," <i>Science</i> 244: 1288-1292, June 1989.
		Cho et al., " δ -Integration of endo/exo-glucanase and β -glucosidase genes into the yeast chromosomes for direct conversion of cellulose to ethanol," <i>Enzyme and Microbial Technology</i> 25: 23-30, July 1999.
		Copeland et al., "Recombineering: a powerful new tool for mouse functional genomics," <i>Nat. Rev. Genet.</i> 2: 769-779, 2001.

EXAMINER SIGNATURE:	DATE CONSIDERED:
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* Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.

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		Court et al., "Genetic Engineering Using Homologous Recombination ¹ ," <i>Annu. Rev. Genet.</i> 36: 361-388, 2002.	
		Cox, "Recombinational DNA Repair of Damaged Replication Forks in <i>Escherichia coli</i> ," <i>Annu. Rev. Genet.</i> 35: 53-82, 2001.	
		Ellis et al., "High efficiency mutagenesis, repair, and engineering of chromosomal DNA using single-stranded oligonucleotides," <i>Proc. Natl. Acad. Sci. USA</i> 98: 6742-6746, 2001.	
		Harfe and Jinks-Robertson, "Mismatch repair proteins and mitotic genome stability," <i>Mut. Res.</i> 451: 151-167, 2000.	
		Higgins et al., "A Model for Replication Repair in Mammalian Cells," <i>J. Mol. Biol.</i> 101: 417-425, 1976.	
		Karakousis et al., "The Beta Protein of Phage λ Binds Preferentially to an Intermediate in DNA Renaturation," <i>J. Mol. Biol.</i> 276: 721-731, 1998.	
		Lee et al., "A highly efficient <i>Escherichia coli</i> -based chromosome engineering system adapted for recombinogenic targeting and subcloning of BAC DNA," <i>Genomics</i> 73: 56-65, 2001.	
		Li et al., "The Beta Protein of Phage λ Promotes Strand Exchange," <i>J. Mol. Biol.</i> 276: 733-744, 1998.	
		Maas et al., "Multicopy single-stranded DNA of <i>Escherichia coli</i> enhances mutation and recombination frequencies by titrating MutS protein," <i>Molec. Microbiol.</i> 19: (3) 505-509, 1996.	
		Minuyappa et al., "The homologous recombination system of phage λ ," <i>J. Bio. Chem.</i> 261: 7472-7478, June 1986.	
		Moerschell et al., "Transformation of yeast with synthetic oligonucleotides," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 85: 524-528, 1988.	
		Murphy, K.C., "Use of bacteriophage λ recombination functions to promote gene replacement in <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 180: 2063-2071, 1998.	
		Murphy et al., "PCR-mediated gene replacement in <i>Escherichia coli</i> ," <i>Gene</i> 246: 321-330, 2000.	
		Muyrers, et al., "Point mutation of bacterial artificial chromosomes by ET recombination," <i>EMBO Rep.</i> 1: 239-243, 2000.	
		Muyrers et al., "RecE/RecT and Red α /Red β initiate double-stranded break repair by specifically interacting with their respective partners," <i>Genes Dev.</i> 14: 1971-1982, 2000.	
		Muyrers et al., "Techniques: Recombinogenic engineering-new options for cloning and manipulating DNA," <i>Trends Biochem. Sci.</i> 26: 325-331, 2001.	

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		Muyrers et al., "Rapid modification of bacterial artificial chromosomes by ET-recombination," <i>Nucleic Acids Res.</i> 27: 1555-1557, 1999.	
		Nistala and Sigmund, "A reliable and efficient method for deleting operational sequences in PACs and BACs," <i>Uncle. Acid. Res.</i> 30: 10 e 41, 2002.	
		Passy et al., "Rings and filaments of β protein from bacteriophage λ suggests a superfamily of recombination proteins," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 96: 4279-4284, 1999.	
		Postow et al., "Topological challenges to DNA replication: Conformations at the fork," <i>Proc. Natl. Acad. Sci. USA</i> 98 (15): 8219-8226, 2001.	
		Poteete, "What makes the bacteriophage λ Red system useful for genetic engineering: molecular mechanism and biological function," <i>FEMS Microbiol. Lett.</i> 201: 9-14, 2001.	
		Reuven et al., <i>J. Virology</i> 77(13):7425-7433, 2003	
		Santucci-Darmanin et al., "The DNA mismatch-repair MLH3 protein interacts with MSH4 in meiotic cells, supporting a role for this MutL homolog in mammalian meiotic recombination," <i>Hum. Mol. Genet.</i> 11: 1697-1706, 2002.	
		Swaminathan et al., "Rapid Engineering of Bacterial Artificial Chromosomes Using Oligonucleotides," <i>Genesis</i> 29: 14-21, 2001.	
		Vellani et al., <i>J. Bacteriology</i> 185(8):2465-2474, 2003	
		Yang et al., "Homologous recombination based modification in Escherichia coli and germline transmission in transgenic mice of bacterial artificial chromosome," <i>Nat. Biotechnol.</i> 15: 859-865, 1997.	
		Yu et al., "An efficient recombination system for chromosome engineering in Escherichia coli," <i>Proc. Natl. Acad. Sci. USA</i> 97: 5978-5983, 2000.	
		Zhang et al., "A new logic for DNA engineering using recombination in Escherichia coli," <i>Nat. Genet.</i> 20: 123-128, 1998.	
		Zhang et al., "DNA cloning by homologous recombination in Escherichia coli," <i>Nat. Biotechnol.</i> 18: 1314-1317, 2000.	

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